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L2      dna or nucleic or plasmid  
L1      oral vaccine

247400    L2  
927      L1

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L14: Entry 1 of 4

File: PGPB

Apr 11, 2002

DOCUMENT-IDENTIFIER: US 20020041861 A1

TITLE: Novel polymerizable fatty acids, phospholipids and polymerized liposomes therefrom

Summary of Invention Paragraph:

[0084] Thus, in one embodiment, the present invention encompasses polymerized liposomes which comprise (a) one or more of the fatty acids described above which may optionally be substituted with a suitable polymer spacer, activated linker, and one or more lectin targeting molecules; (b) one or more of the negatively charged polymerizable lipids described herein; (c) one or more non-polymerizable fatty acids or phospholipids; and (d) optionally cholesterol. Preferably, the polymerized liposomes comprises from about 0% to about 15% fatty acid and about 0% to about 100% negatively charged polymerizable lipids; and about 0% to about 50% non-polymerizable fatty acids, phospholipids or cholesterol; for example, DODPC/DODPG/Targeted fatty acid/cholesterol/DSPC.

Summary of Invention Paragraph:

[0089] The polymerized liposomes of the present invention can be used for the oral and/or mucosal delivery of a wide variety of therapeutics, including but not limited to, antineoplastic agents, antibiotics, antifungals, antimicrobials, vaccines, insulin, cytokines, interferon, hormones, calcitonin, fertility drugs, antiviral agents (ddi, AZT, ddc, acyclovir and the like), antibacterial agents, DNA and RNA nucleotides, i.e., useful for gene therapy.

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